

 <p align="center"> Financial Assistance Award DENALI COMMISSION 510 L Street, Suite 410 Anchorage, Alaska 99501 (907) 271-1414 (phone) (907) 271-1415 (fax) www.denali.gov </p>		Award Number	01163-02		
		Award Title	Hybrid Micro Energy Program		
		Performance Period	August 1, 2009 through September 30, 2014		
Authority 112 Stat 1854		CFDA Number 90.100		Recipient Organization & Address Cold Climate Housing Research Center PO BOX 82489 Fairbanks, AK 99708-2489 Phone: (907) 457-3454 Recipient DUNS # 608773003 TIN # 920169929	
Denali Commission Finance Officer Certification					
Cost Share Distribution Table					
Accounting Code	New Funding		Prior Period Funding		Total
	Denali Commission	Other Contributors	Denali Commission	Other Contributors	
95670000AL	\$0.00		\$233,321.00		\$233,321.00
	\$0.00		\$0.00		\$0.00
	\$0.00		\$0.00		\$0.00
	\$0.00		\$0.00		\$0.00
BP Foundation		\$0.00		\$500,000.00	\$500,000.00
State of Alaska		\$0.00		\$100,000.00	\$100,000.00
Fairbanks North Star Borough		\$0.00		\$200,000.00	\$200,000.00
		\$0.00		\$0.00	\$0.00
		\$0.00		\$0.00	\$0.00
Total	\$0.00	\$0.00	\$233,321.00	\$800,000.00	\$1,033,321.00
This Financial Assistance Award approved by the Federal Co-Chair of the Denali Commission constitutes an obligation of federal funding.					
Signature of Authorized Official - Denali Commission Electronically Signed			Typed Name and Title Mr. Joel Neimeyer Federal Co-Chair		Date 12/17/2013

AWARD ATTACHMENTS

Cold Climate Housing Research Center

01163-02

1. Award Doc

***Award Conditions to the Financial Assistance Award
Between the Denali Commission and
Cold Climate Housing Research Center (CCHRC)
For Hybrid Micro Energy Program
Award No. 1163 Amendment 2
November 2013***

All changes to the award conditions are noted below.

1. Scope of Work

This amendment provides for an expansion to the scope of work to include analysis of additional, existing ground source heat pump systems in Interior Alaska, in conjunction with continued monitoring of the hybrid ground source heat pump and solar thermal system at Weller Elementary School in Fairbanks, Alaska.

The objectives for the amended scope are:

1. To continue to monitor the Weller heat pump to gather one year of data and use that data to calculate the efficiency (COP) of the system and the effect on the ground loop thermal regime.
2. To evaluate the installation of the Weller Elementary School heat pump in terms of successes and failures for retrofit systems.
3. To evaluate six to eight heat pump installations in the Fairbanks area with a focus on their design and performance, which will expand the lessons learned to a more generalized set of lessons for heat pumps in Interior Alaska.
4. To provide a lessons learned document for home owners, businesses and facility managers considering retrofitting their heating system with a ground source heat pump.

2. Award Performance Period

The amended Award performance period is August 1, 2009 through September 30, 2014. This is the period during which Award recipients can incur obligations or costs against this Award.

There are no other changes to the original Financial Assistance Award, as amended.